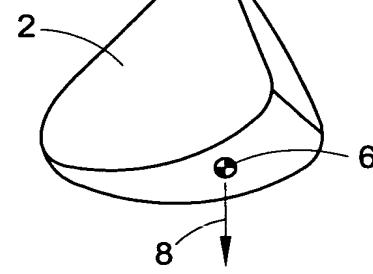


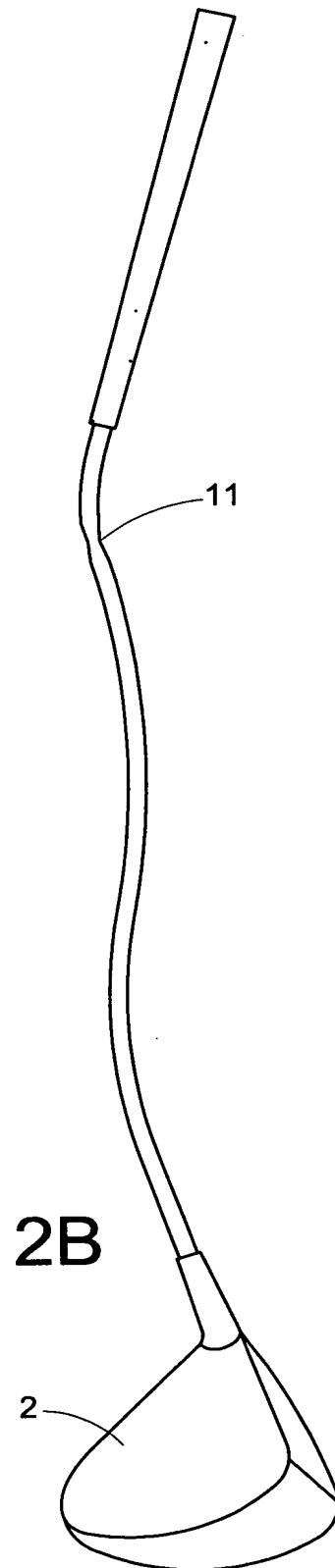
**FIG. 1**



**FIG. 2A**

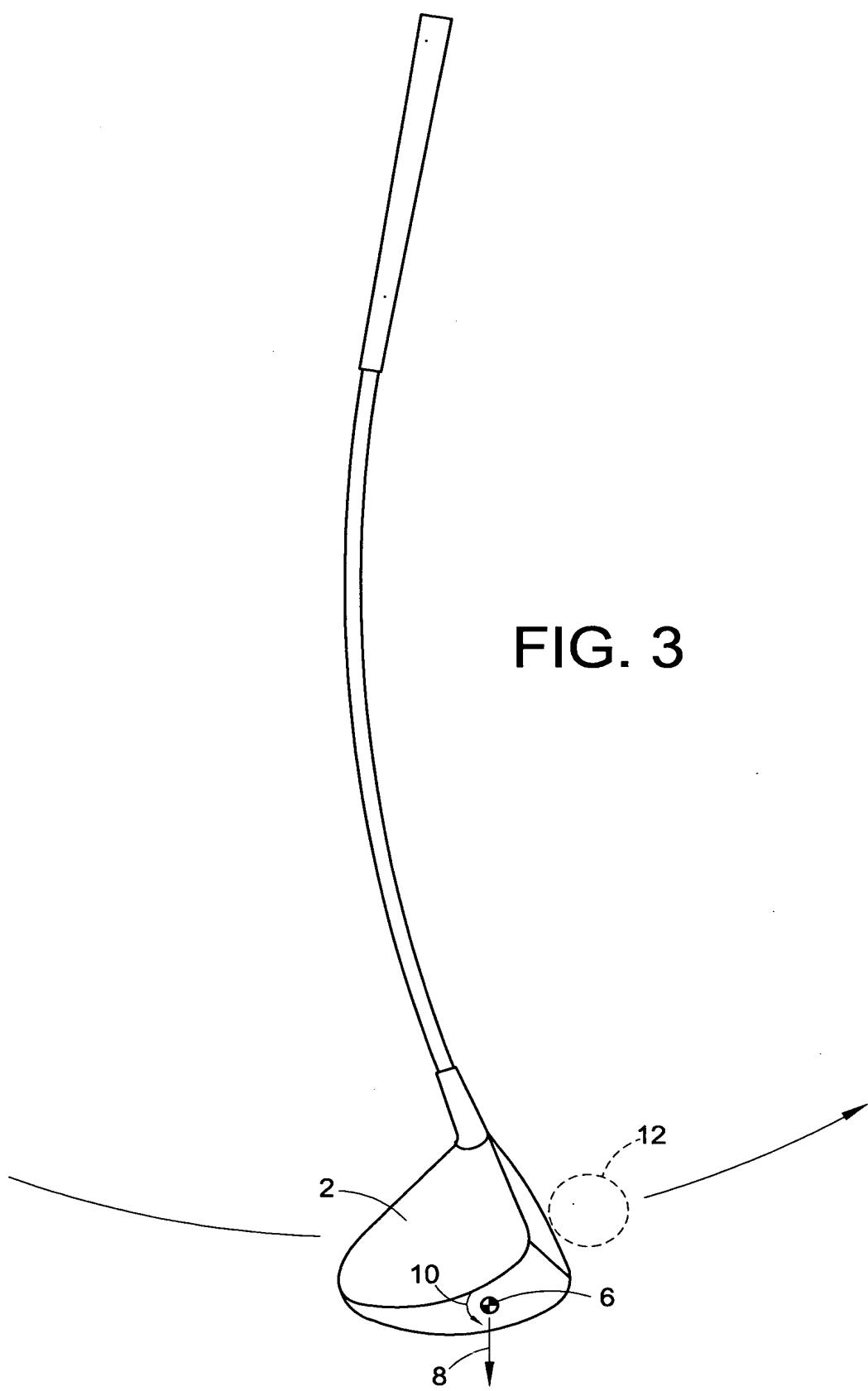


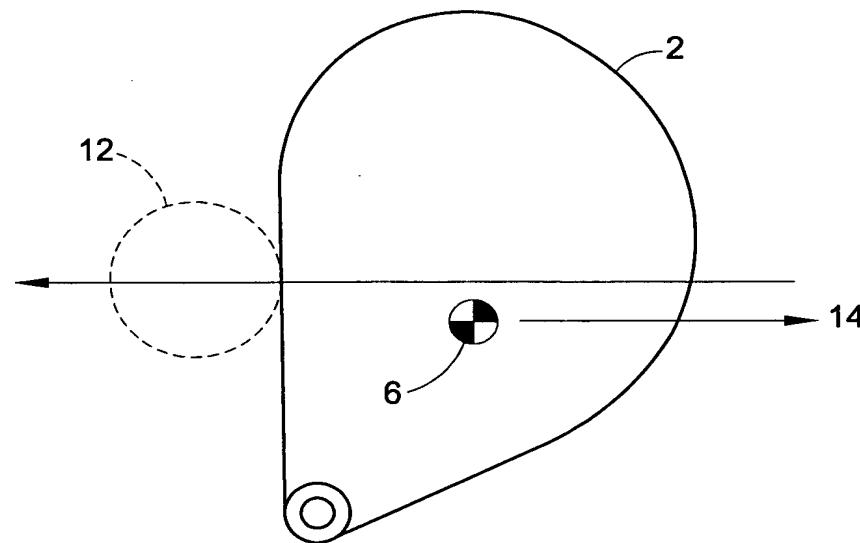
**FIG. 2B**



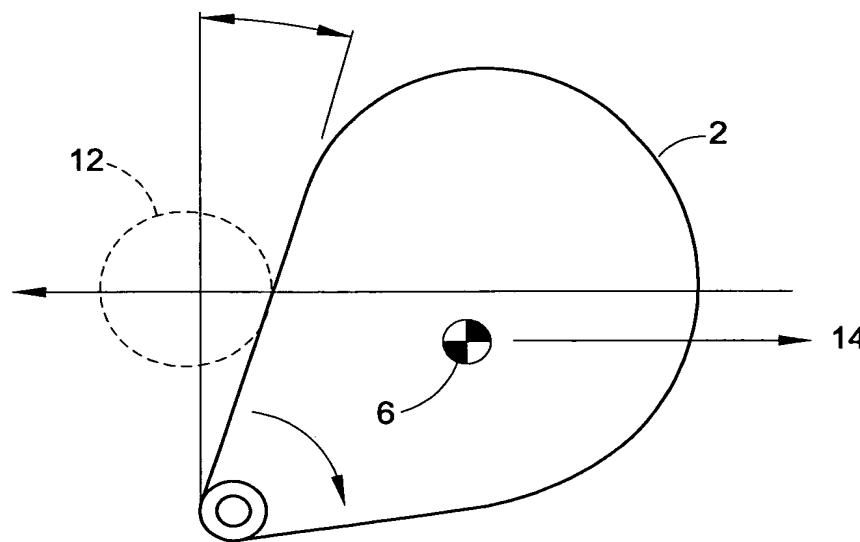


**FIG. 3**





**FIG. 4A**



**FIG. 4B**

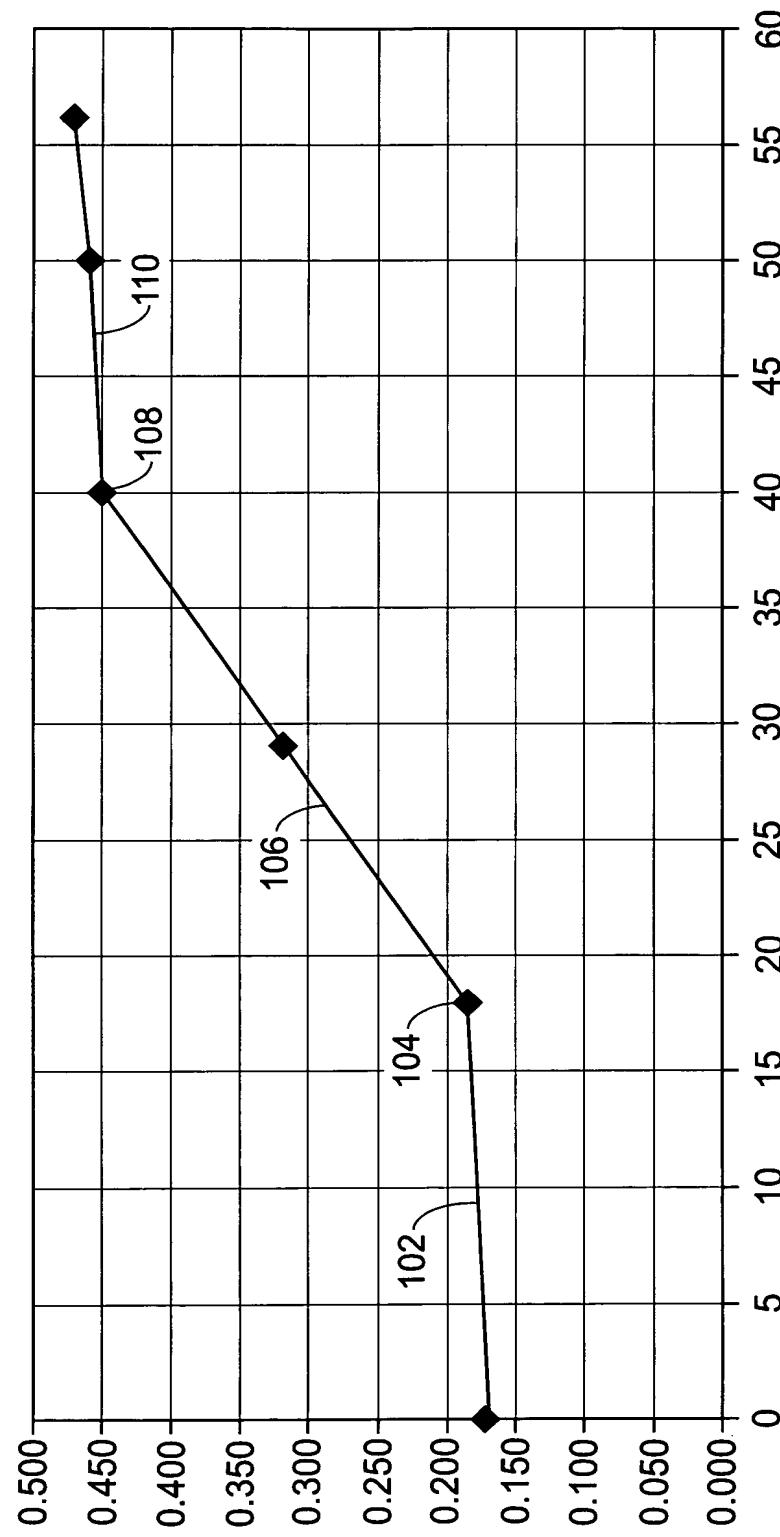


FIG. 5B

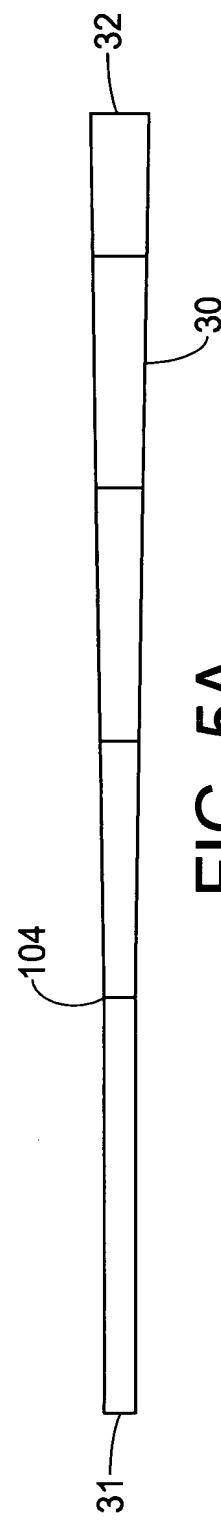
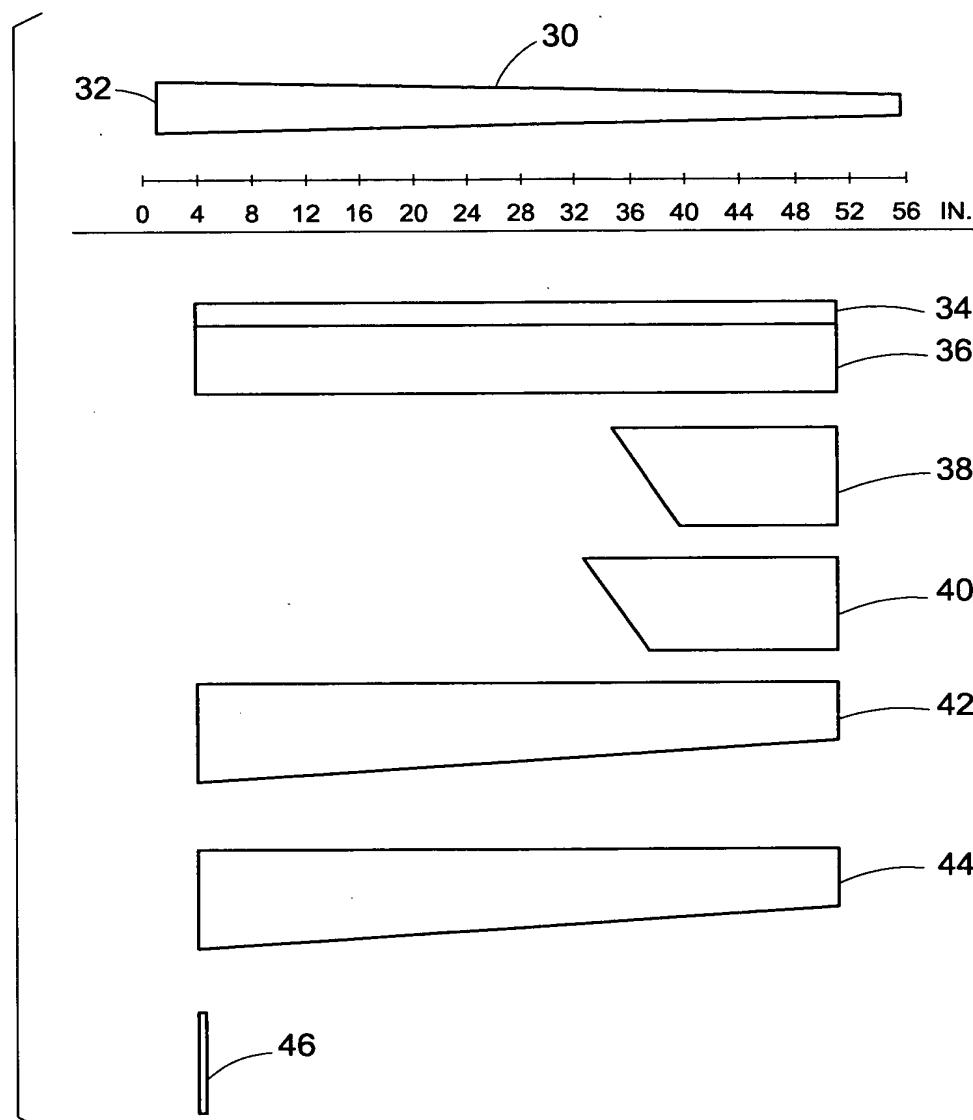


FIG. 5A



**FIG. 6**

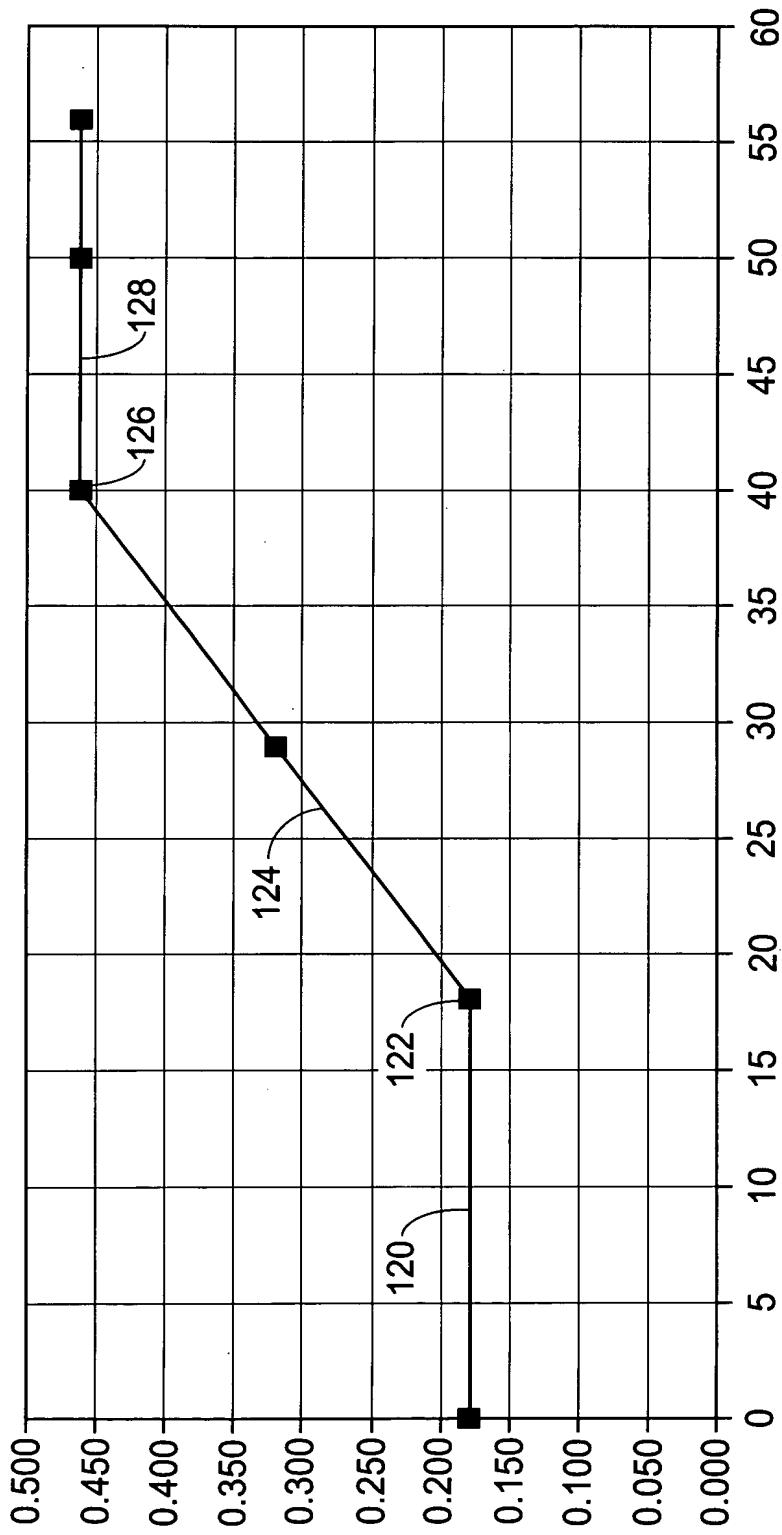


FIG. 7B

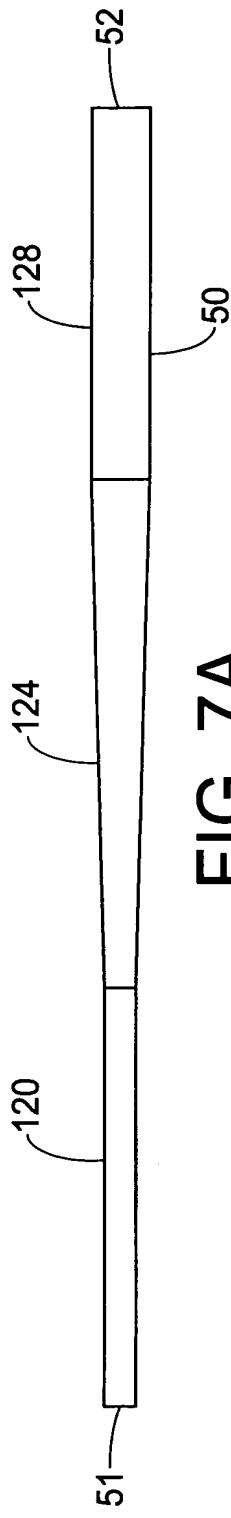
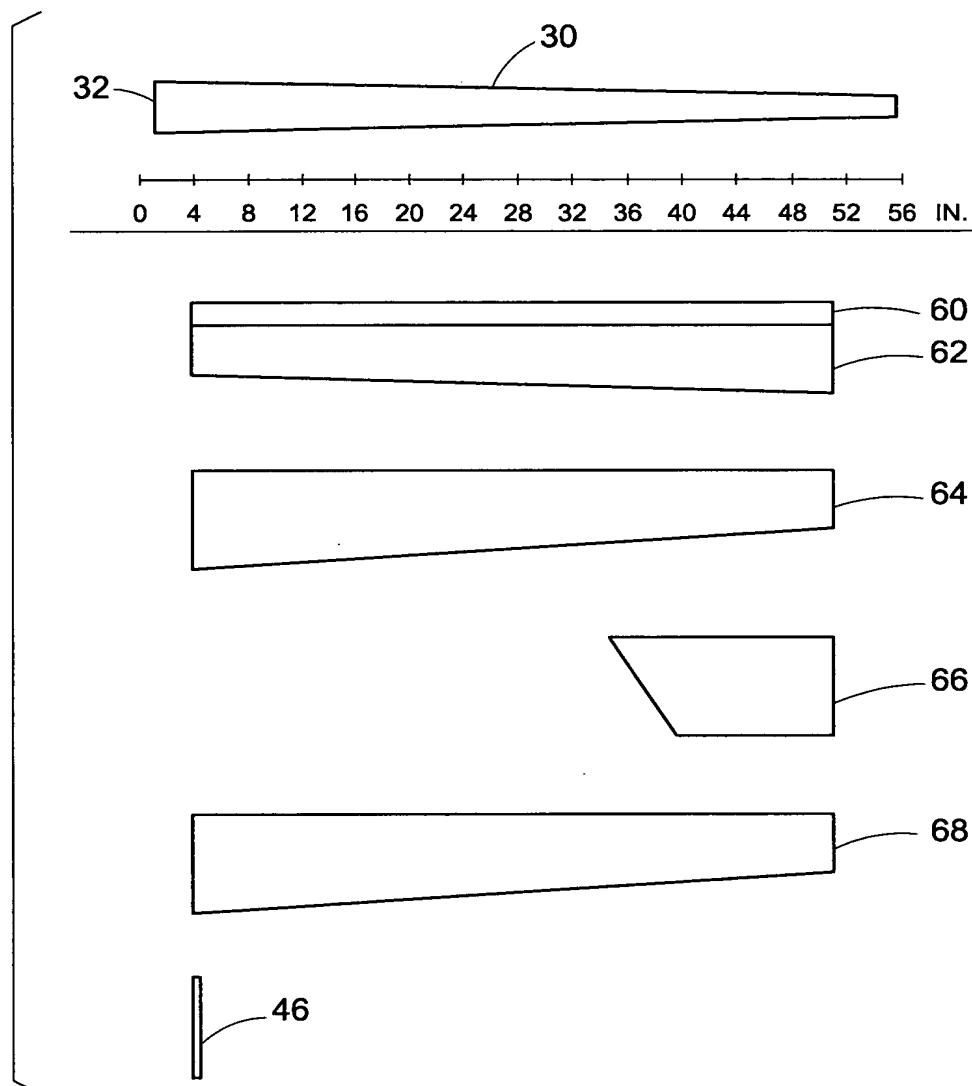
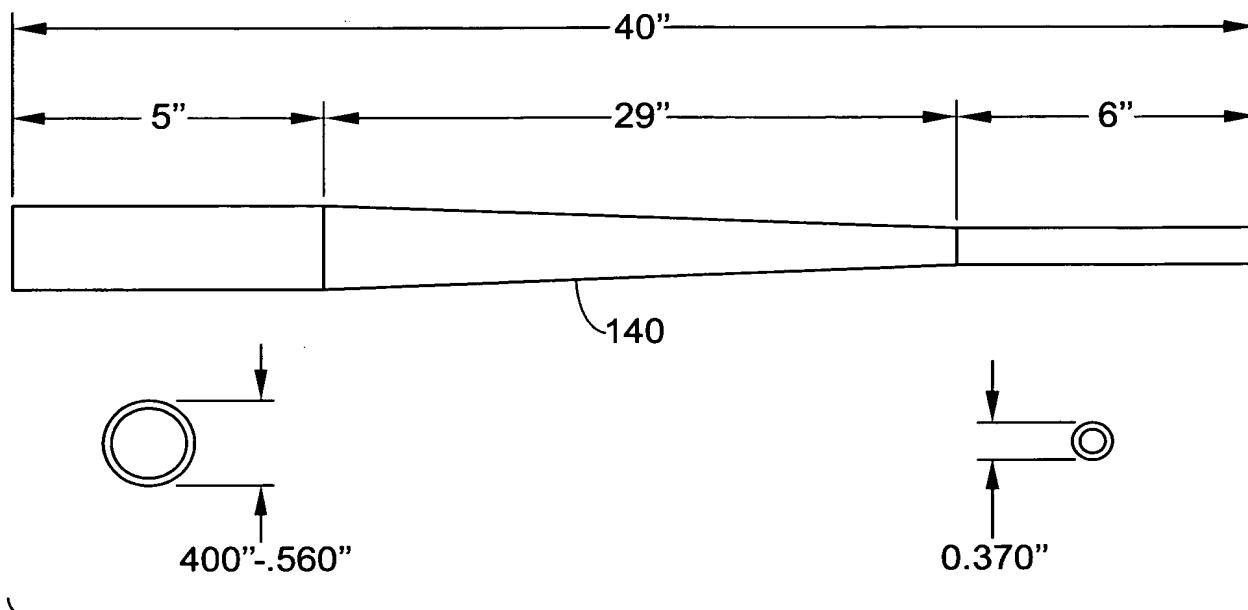


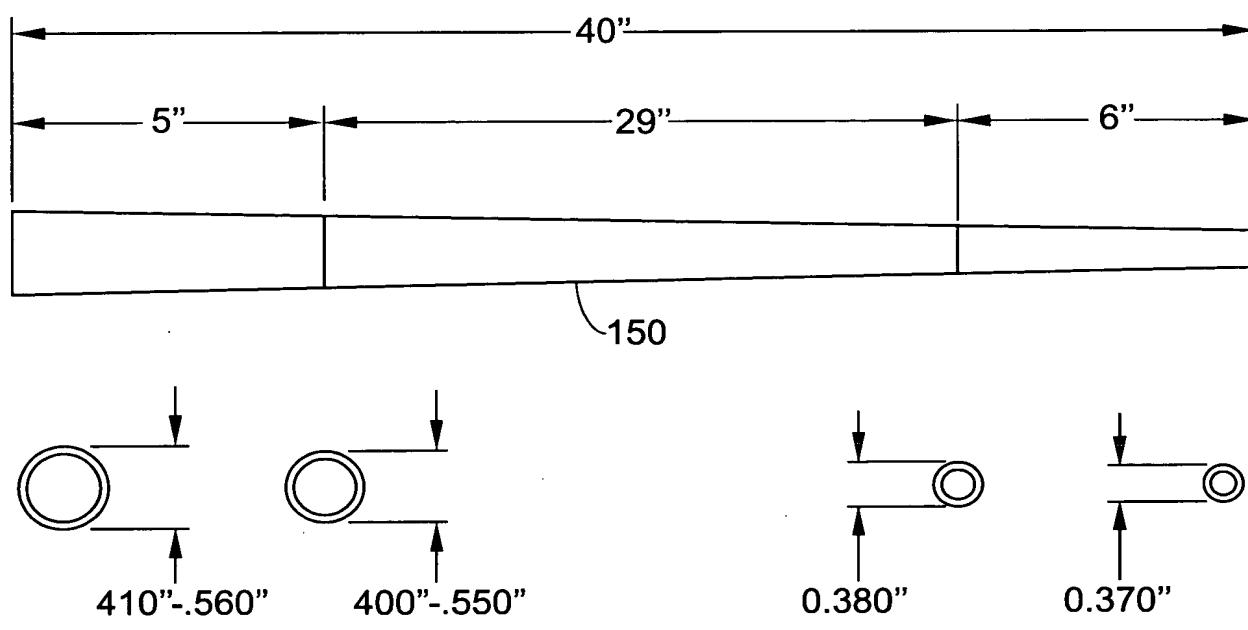
FIG. 7A



**FIG. 8**



**FIG. 9A**

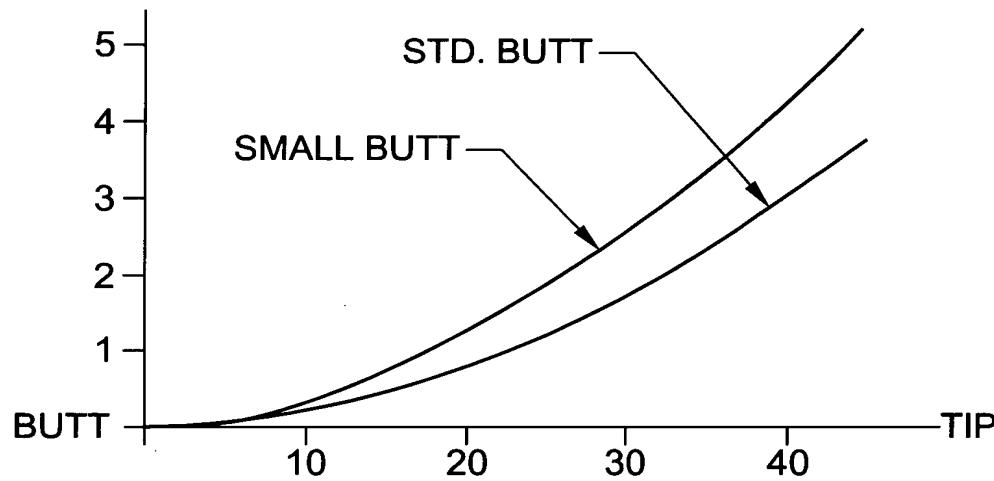


**FIG. 9B**



## CANILEVER BEAM CASE 1:

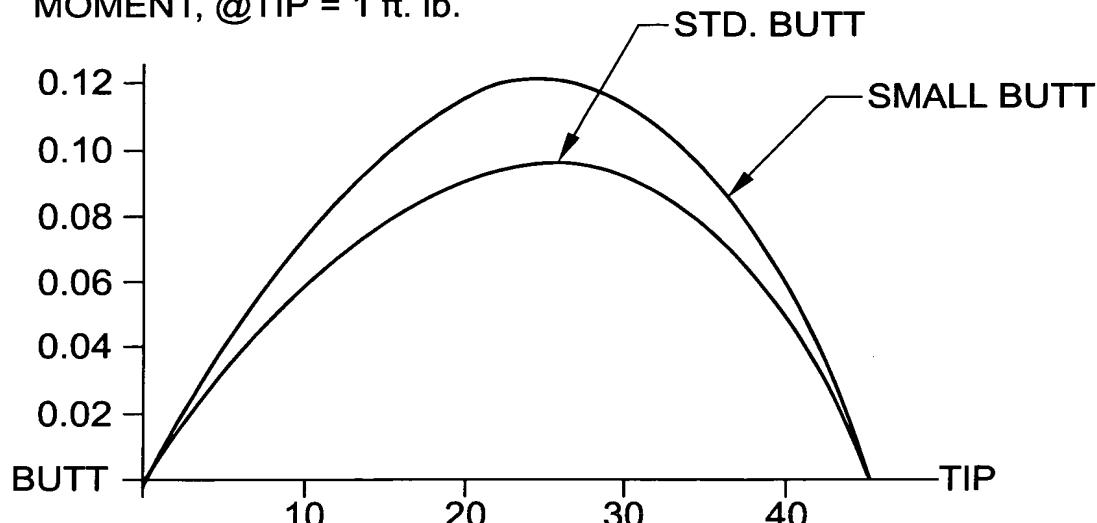
LENGTH = 45"  
OD/STD. = .620"  
OD/SMALL = .540"  
TIP LOAD = 6 lb.



**FIG. 10**

## SIMPLY SUPPORTED BEAM CASE 1:

LENGTH = 45"  
OD/STD. = .620"  
OD/SMALL = .540"  
MOMENT, @BUTT = 1 ft. lb.  
MOMENT, @TIP = 1 ft. lb.



**FIG. 11**